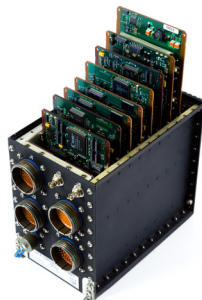# Powerful data concentration for any Aircraft Management System

Today's advanced aviation platforms produce an abundance of data relating to every facet of the mission at hand. With the mission on the line, countless aircrews have depended on SCI™ Technology's Data Concentrator Unit (DCU) to manage it all. Now, the Enhanced DCU (E-DCU) provides all the capability and reliability of the Legacy DCU with additional I/O and Multi-Port Ethernet capabilities.

Every Facet of the Mission

Compact, lightweight, and low-powered, the E-DCU provides a single, high-density conversion interface for any Aircraft Management System (AMS). Due to its flexible design, the E-DCU works seamlessly with an array of inputs and outputs from an aircraft's equipment and sensors, including discrete, analog and avionics bus data.

The E-DCU is a drop-in replacement for all currently DCU-supported airframes, and will fully support the future of avionics with multi-port Ethernet capability.

Fully Qualified, Built to Last

The E-DCU was developed in conjunction with the U.S. Army for future support of the U.S. Army Block-II CH-47F airframe while ensuring that all current DCU user requirements will continue to be met with the same rigorous qualification standards as the Legacy DCU:
• MIL-STD-810
• MIL-STD-704
• MIL-STD-461 as modified by ADS-37A-PRF
• Lightning per RTCA/DO-160-22
• Manufactured to MIL-E-4400, Class 1A

Features/Benefits

• 270+ input/output (I/O) channels
• MIL-STD-1553 interfaces
• ARINC-429 interfaces
• KY-58 and KY-100 control interfaces
• RS-422 and RS-232 interfaces
• 10/100 Base-TX Ethernet x 4 Ports
• 32-bit processor

• Fault History Storage (Log)
• Elapsed time counter
• Built-In-Test
• 115VAC, 400Hz power
• MIL-C-38999 connectors
• Support for parallel operation
• Field-programmable
• Stores 64 user configurations

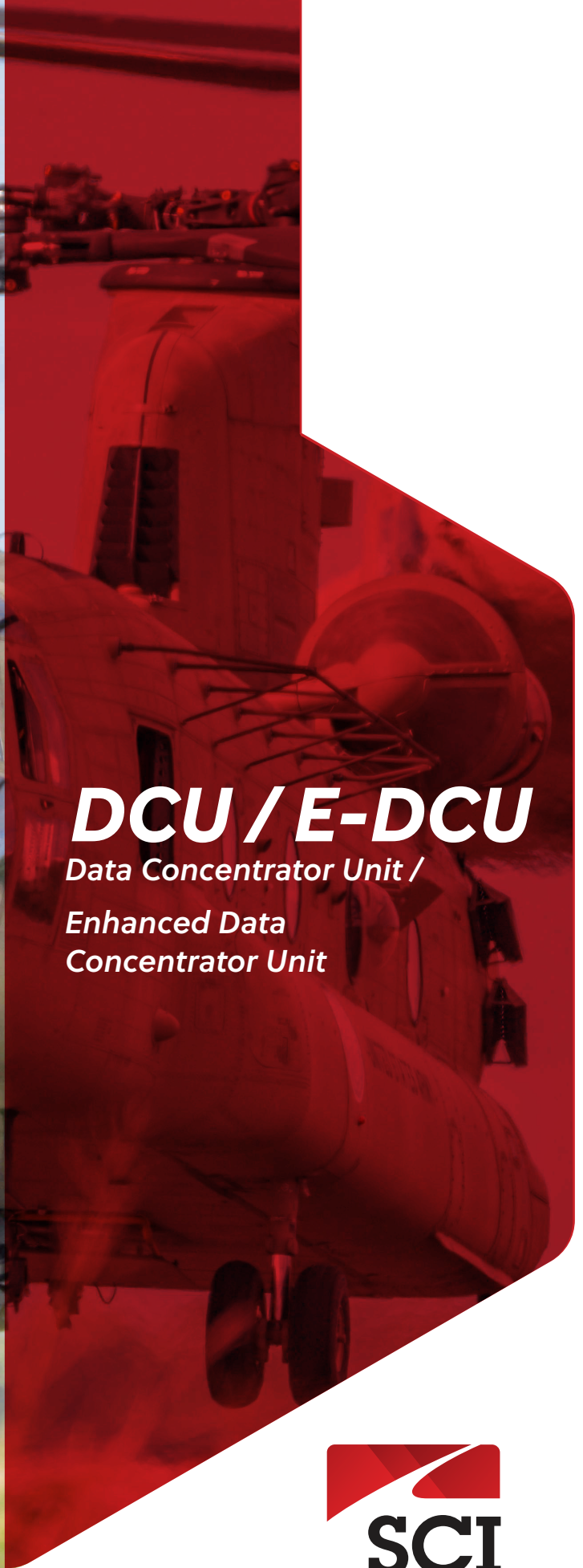## E-DCU Options

• 28VDC power
• Voice warning option; IWCA (V)

Platforms (Non-Exhaustive)

DCU:
• MH-60M / T
• MH-60N
• UH-60V
• MH-47G
• CH-47F
• MH-65E
• AH-1F

E-DCU:
• CH-47F

DCU / E-DCU
Data Concentrator Unit /

*Enhanced Data
Concentrator Unit*

ALL WE DO

SCI

To Serve Those Who Serve